

ENG



Fans
& Blowers



PRODUCT LINE

Range of fans
Well Technology Chicago Blower

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Model RA	Design 36	Airfoil	4500	210 000	110	80	600 1650	11	8	
Model RB	Design 36	Backward Inclined	4500	210 000	110	80	600 1650	11	8	
Model RB	Design 36	Backward Inclined	4500	210 000	315	350	600 1650	11	8	
Model RS	Design 39	Radial Blade	4500	30 000	90	550	600 1650	11	8	
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Centrifugal fans, High pressure										
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Model HP	Design 95	Backward Inclined	10 000	520 000	1250	450	600 2400	17	12	
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Model VA	Design 19	Airfoil	15 000	670 000	1500	550	500 2700	24	12	
Model VD	Design 19	Airfoil	15 000	1 300 000	4000	550	500 2700	24	12	
Model VS	Design 61	Backward Curved	15 000	610 000	1500	550	600 2600	21	13	
Model VM	Design 48	Radial Tipped	17 000	850 000	950	550	750 2700	25	13	
Model VG	Design 48	Radial Tipped	17 000	450 000	950	550	750 2700	25	14	
Model VN	Design 48	Radial Tipped	17 000	1 350 000	4000	550	750 2700	25	13	

WT	CBC	Blade type	Max, Pa	Max, m ³ /h	Max, kW	Max temp, °C	Fan sizes	Number of fan sizes	Page	
Centrifugal fans, High pressure										
Model VR	Design 48	Radial Tipped	17 000	450 000	4000	550	750 2700	25	14	
Model VC	Design 55	Backward Curved	18 000	200 000	1000	550	800 2200	16	13	
Model VH	Design 58	Backward Curved	20 000	135 000	900	550	800 2200	16	14	
Model VK	Design 18	Radial Tipped	17 000	850 000	1250	550	900 2700	19	—	
Model VL	Design 18	Radial Tipped	17 000	750 000	2500	550	900 2700	19	—	
Model VF	Design 19	Backward Inclined	15 000	760 000	1250	550	600 2500	23	—	
Model VT	Design 19	Backward Inclined	15 000	1 450 000	2500	550	600 2500	23	—	
Model BC	Design 49	Radial Blade	20 000	76 000	600	550	800 2500	66	14	
Model BR	Design 23	Radial Blade	27 000	370 000	2000	550	500 2500	80	15	
Model BN	Design 23	Radial Blade	27 000	740 000	5000	550	500 2500	80	15	
Model ZR	Design 38	Radial Blade	6000	8500	15	80	200 500	8	15	
Model ZF	Design 53	Backward Inclined	22 900	30 500	200	350	500 900	17	15	
Model FF	—	To be specified	29 000	2 800 000	15 000	450	500 5500	50	16	
Model FR	—	Backward Curved	7500	150 000	450	200	280 1800	9	16	
Model MR	—	To be specified	50 000	250 000	2500	550	1000 2500	30	16	
Model MB	—	To be specified	50 000	500 000	900	550	1500 3500	50	16	
Axial fans, Low pressure										
Model AB	Design 34	Airfoil	1250	130 000	450	250	400 1400	12	20	
Model SA	—	Airfoil	2000	900 000	500	80	1400 3150	9	21	
Model AM	Design 37	Airfoil	750	110 000	55	80	350 1200	11	20	
Model AN	Design 37	Airfoil	500	110 000	55	80	350 1200	12	20	
Axial fans, Medium pressure										
Model AV	Design 47	Airfoil	3750	260 000	250	80	400 2000	17	20	
Model AR	Design 47	Airfoil	3750	260 000	250	80	400 2000	17	20	
Model SE	—	Airfoil	5500	900 000	500	250	500 2800	22	21	
Axial fans, High pressure										
Model SR	—	Airfoil	9000	2 600 000	15 000	250	1400 5500	55	21	
Model SW	—	To be specified	11 000	900 000	1500	250	500 2800	22	21	

Well Technology



In 2018 Well Technology became an official Licensee of American Chicago Blower Corporation (CBC) with the right to manufacture the Chicago Fan Lines. Chicago Blower Corporation has been designing and manufacturing pre-engineered and heavy duty fans and blowers for over 70 years. In 1952, CBC became the first fan company to design and sell a centrifugal fan with an airfoil blade, and has been setting the industry standard ever since. Well Technology Chicago Blower offers an experience and an extensive product line that will exceed all of your air handling needs while reducing energy usage and sound.

Why choose Well Technology Chicago Blower?



Innovation

Well Technology engineers are constantly working on both the development of fundamentally new products and the improvement of the existing products according to the special requirements of the customers and industry.



Experience

Well Technology gained CBC's consolidated global experience as part of the license agreement (between the two companies). The Corporation's enterprises are located in all leading markets, and the mechanisms of the license agreement allow a constant exchange of experience.



Flexibility

Well Technology customizes products, entire solutions, installation, technical support, and services suit client's needs and budget.



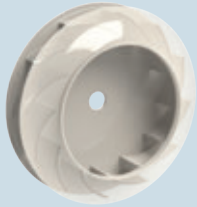
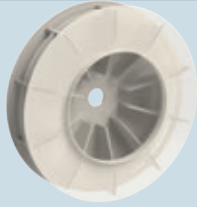

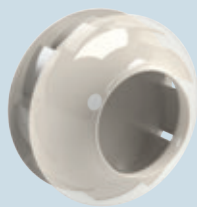
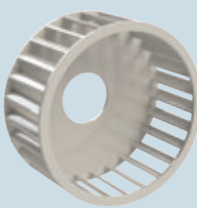



Customer focus

Well Technology offers solutions that fit. If that means keeping client's existing system's casing and changing what's inside, WT specialists will do it. We guarantee high performance and a job well done.





CENTRIFUGAL FANS

Wheel Type	Max pressure, (Pa)	Max temperature, (°C)	Application	Aspect
Radial tip blades	17 000	450	Moderately dirty environment, induced draft on coal fired boilers, process exhaust, cement kiln exhaust. Medium efficiency.	
Radial blades	27 000	800	Severe duty environment, induced draft, conveying sawdust, woodchips, metal chips. Low efficiency.	
Airfoil blades	9 000	450	Clean gas, forced draft on boilers, induced draft process combustion. High efficiency.	
Backward curved blades	25 000	450	Relatively clean gas, induced draft after baghouse process blowers, forced draft on fluid bed boilers. High efficiency.	
Forward curved blades	2 000	800	High temperature applications with low operating speeds. Medium efficiency.	
Backward inclined blades	15 000	450	Clean to slightly dirty gas, induced draft on boilers, baghouses, forced draft, combustion air. Medium efficiency.	
Open radial blades (Long Shavings)	10 000	550	Conveying sticky, heavy or abrasive dust, such as coal dust and gritty pollution control systems, plus induced draft and industrial oven applications. First choice for dry, granular conveying, applications range from wood chips to plastics.	
Radial blades without side plate (Wool-Fiber)	10 000	550	In addition to handling air and gases, the Wool-Fiber wheel with backplate is designed for long fibers and stringy material. It was developed to handle the dusty, fibrous airstreams, fabric manufacturing and paper processing.	

Centrifugal fans, Medium pressure



Model RA (Design 36)

Model RA is a centrifugal fan with airfoil wheel in a square casing. This versatile innovative design packs maximum performance into a minimum footprint. Airfoil wheel provides higher wheel efficiency along with reduced energy costs. Model RA blades create a smooth lifting airflow, requiring less horsepower to deliver comparable air volume, with reduced noise levels.

- Fan sizes 600 to 1650
- Volumes to 210 000 m³/h
- Pressures to 4500 Pa
- Power to 315 kW
- Maximum Temperature 350 °C



Model RB (Design 36)

Model RB is a centrifugal fan with backward inclined wheel in a square casing. Model RB is efficient, economical and versatile. Backward inclined blades are designed to handle corrosive or dusty airstreams. Typical applications of RB include oven circulators, dust collector exhaust fans, fume exhausters, and emissions control systems.

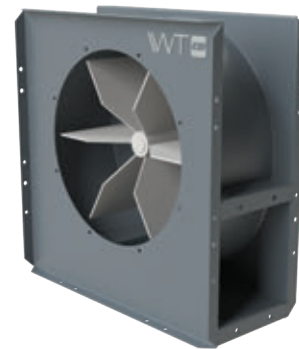
- Fan sizes 600 to 1650
- Volumes to 210 000 m³/h
- Pressures to 4500 Pa
- Power to 315 kW
- Maximum Temperature 350 °C



Model RS (Design 39)

Model RS is a centrifugal fan with an open radial bladed "LS" wheel. Long shaving wheels without backplate are recommended for conveying air or gases containing material that could build up on other wheels. Typical applications are conveying sticky, heavy or abrasive dust, such as coal dust and gritty pollution control systems, plus induced draft and industrial oven applications. LS is the first choice for dry, granular conveying.

- Fan sizes 600 to 1650
- Volumes to 30 000 m³/h
- Pressures to 4500 Pa
- Power to 90 kW
- Maximum Temperature 550 °C



Model RF (Design 39)

Model RF is a centrifugal fan with radial bladed "WF" wheel. Wool-Fiber wheel with backplate is designed for long fibers and stringy material. It was developed to handle the dusty, fibrous airstreams, fabric manufacturing, and paper processing.

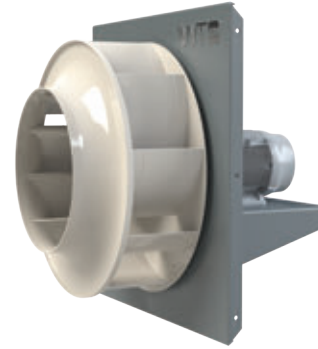
- Fan sizes 600 to 1650
- Volumes to 30 000 m³/h
- Pressures to 4500 Pa
- Power to 90 kW
- Maximum Temperature 350 °C



Model PG (Design 44)

Model PG is a centrifugal plug fan without housing. Airfoil wheel provides higher wheel efficiency along with reduced energy costs. Model PG fans are designed for easy mounting in ovens, dryers, kilns, can be installed in penthouses, panel walls, ceilings, floors.

- Fan sizes 300 to 1150
- Volumes to 95 000 m³/h
- Pressures to 3500 Pa
- Power to 90 kW
- Maximum Temperature 450 °C



Model PD (Design 44)

Model PD is a centrifugal plug fan without housing. Model PD is a direct drive compact economical alternative to belt drive plug fans. Direct drive simplicity converts to lower initial cost and less operating expense, as there are no fan shafts, bearings, belts or guards to maintain. Applications of Model PD include packaged equipment for cooling, drying, dust collection, recirculation and aeration systems.

- Fan sizes 300 to 1150
- Volumes to 45 000 m³/h
- Pressures to 2000 Pa
- Power to 55 kW
- Maximum Temperature 80 °C



Model PR (Design 70)

Model PR is a centrifugal fan with backward curved wheel without a housing. Model PR is designed for high temperatures to 950 °C, typically ovens, kilns, and dryers, anywhere air streams need to be recirculated. The system plenum serves as the fan housing, reducing space requirements and connecting ductwork, and therefore overall system costs. The fan can be installed either vertically or horizontally

- Fan sizes 300 to 1600
- Volumes to 265 200 m³/h
- Pressures to 5000 Pa
- Power to 200 kW
- Maximum Temperature 950 °C



Model PE (Design 64)

Model PE is a centrifugal fan with backward inclined wheel in a scroll casing. Developed initially for the dust collector industry Model PE fan is also ideal for an expanding range of applications, such as laser cutters, air filtration, and pneumatic conveying, up to 80 °C. The PE wheel uses heavy backward inclined steel blades for maximum performance in hostile environments. Model PE wheel, coupled with the streamlined inlet, virtually eliminates vibration and reduces noise levels dramatically.

- Fan sizes 300 to 950
- Volumes to 78 000 m³/h
- Pressures to 5000 Pa
- Power to 90 kW
- Maximum Temperature 80 °C



Model PA (Design 51)

Model PA is a centrifugal fan with airfoil wheel in a scroll casing. This fan has an enviable reputation for performance and reliability in a multitude of applications, including industrial supply or exhaust systems. The fan's deep spun inlet and hyperbolic wheel cone plus generous housing proportions provide smooth stable air flow over the entire performance range.

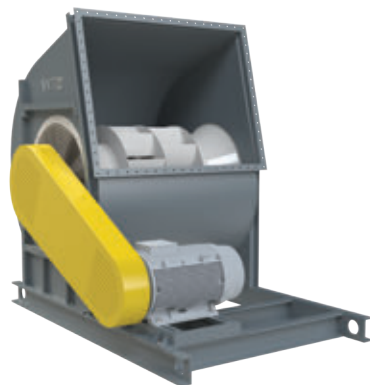
- Fan sizes 300 to 2400
- Volumes to 375 000 m³/h
- Pressures to 5500 Pa
- Power to 450 kW
- Maximum Temperature 450 °C



Model PB (Design 51)

Model PB is a centrifugal fan with backward inclined wheel in a scroll casing. Backward Inclined wheel has ideal characteristics for dust collectors and other variable pressure systems. Model PB fans are available in all four construction classes to meet the specific application requirements, from light duty Class I fans for supply air to Class IV for harsh industrial environments.

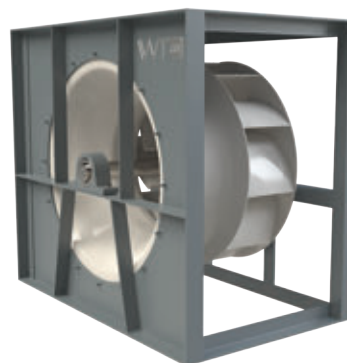
- Fan sizes 300 to 2400
- Volumes to 375 000 m³/h
- Pressures to 5000 Pa
- Power to 450 kW
- Maximum Temperature 450 °C



Model PN (Design 51)

Model PN is a centrifugal double width fan with airfoil wheel in a scroll casing. Model PN is acknowledged as the most efficient fan type for clean air applications. The Double-Width configuration carries an enviable reputation for fan performance and reliability in a multitude of HVAC installations plus many industrial supply or exhaust systems.

- Fan sizes 300 to 2 400
- Volumes to 690 000 m³/h
- Pressures to 5500 Pa
- Power to 630 kW
- Maximum Temperature 80 °C

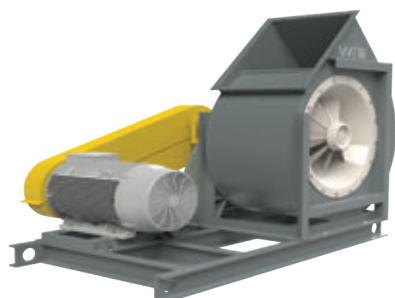


Model PM (Design 51)

Model PM is a centrifugal plenum fan with airfoil wheel without casing. Model PM a practical, economical design alternative for air handling and conditioning systems. It features an unhoused true airfoil bladed wheel that installs directly within the plenum, thereby eliminating the downstream discharge. The fan can be installed either horizontally or vertically.

- Fan sizes 400 to 2400
- Volumes to 300 000 m³/h
- Pressures to 2900 Pa
- Power to 200 kW
- Maximum Temperature 80 °C

Centrifugal fans, High pressure



Model NF (Design 19)

Model NF is a centrifugal belt driven fan with airfoil wheel in a scroll casing. The NF is recognized for heavy duty construction. Housings are strongly braced to resist high pressure movement. Engineers and users enthusiastically specify the NF for many high pressure applications, such as supply air, combustion air, product cooling, and drying.

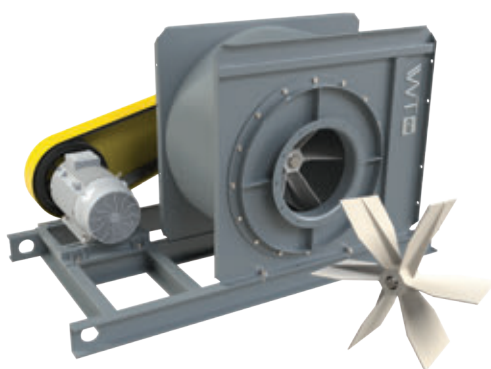
- Fan sizes 700 to 1600
- Volumes to 290 000 m³/h
- Pressures to 9000 Pa
- Power to 800 kW
- Maximum Temperature 450 °C



Model NR (Design 19)

Model NR is a compact centrifugal direct driven fan with airfoil wheel in a scroll casing. NR fans are specified by the world's major manufactures of boiler and burner systems. On the typical downdraft boiler installation, the fan is mounted directly on top of the burner windbox. NR fans are also used extensively in combustion air, supply air and primary air applications. In addition, they are utilized for liquid agitation and product cooling and drying.

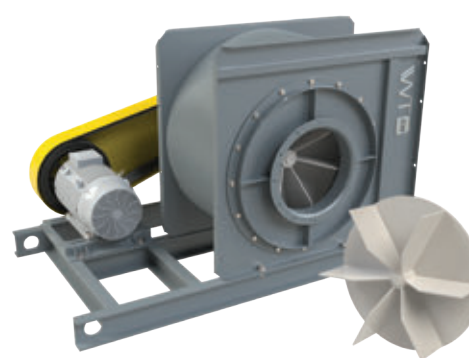
- Fan sizes 500 to 1150
- Volumes to 130 000 m³/h
- Pressures to 9200 Pa
- Power to 200 kW
- Maximum Temperature 350 °C



Model LS (Design 16, LS)

Model LS is a centrifugal fan with open radial bladed "LS" wheel in a square housing. Long shaving wheels without backplate are recommended for conveying air or gases containing material that could build up on other wheels. Typical applications are conveying sticky, heavy or abrasive dust, such as coal dust and gritty pollution control systems, plus induced draft and industrial oven applications. LS is the first choice for dry, granular conveying.

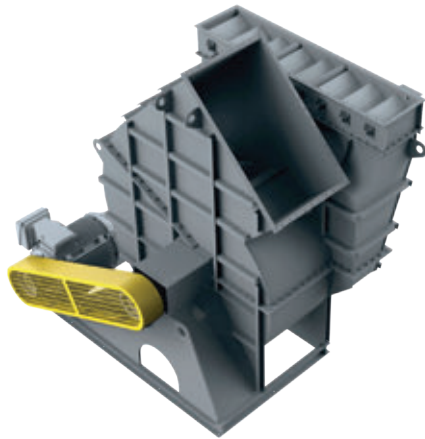
- Fan sizes 500 to 1800
- Volumes to 220 000 m³/h
- Pressures to 10 000 Pa
- Power to 500 kW
- Maximum Temperature 450 °C



Model LF (Design 16, WF)

Model RF is a centrifugal fan with radial bladed "WF" wheel in a square housing. Wool-Fiber wheel with backplate is designed for long fibers and stringy material. It was developed to handle the dusty, fibrous airstreams, fabric manufacturing, and paper processing.

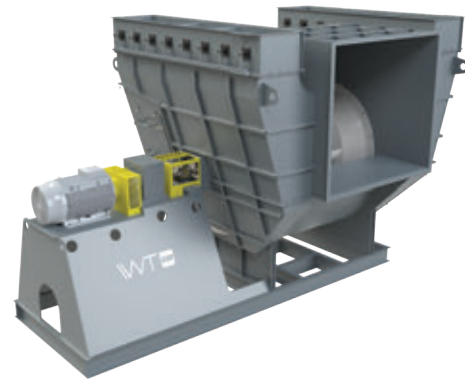
- Fan sizes 500 to 1800
- Volumes to 30 000 m³/h
- Pressures to 10 000 Pa
- Power to 90 kW
- Maximum Temperature 450 °C



Model HP (Design 95)

Model HP is a centrifugal fan with a backward curved wheel in a scroll casing. Model HP has the flexibility to fit your application. The wheel uses heavy backward curved blades designed to handle dusty and harsh environments. The solid steel blades are also ideal for custom applied corrosion resistant coatings making the HP even more versatile. Typical applications include dust collectors, thermal oxidizers, emission control systems, fume exhausters, and air filtration systems. The HP can also be used in clean air applications, such as general ventilation, exhaust, forced or induced mechanical draft, air recirculation, and drying.

- Fan sizes 600 to 2400
- Volumes to 520 000 m³/h
- Pressures to 10 000 Pa
- Power to 1250 kW
- Maximum Temperature 450 °C



Model HD (Design 95, DW)

Model HD is a double width centrifugal fan with a backward curved wheel in a scroll casing. The Double-Width configuration carries an enviable reputation for fan performance and reliability. The wheel uses heavy backward curved blades designed to handle dusty and harsh environments. The solid steel blades are also ideal for custom applied corrosion resistant coatings making the HD even more versatile. Typical applications include dust collectors, thermal oxidizers, emission control systems, fume exhausters, and air filtration systems. The HD can also be used in clean air applications, such as general ventilation, exhaust, forced or induced mechanical draft, air recirculation, and drying.

- Fan sizes 1800 to 2600
- Volumes to 1 200 000 m³/h
- Pressures to 10 000 Pa
- Power to 2800 kW
- Maximum Temperature 450 °C



Model VA (Design 19, SW)

Model VA is a centrifugal fan with an airfoil wheel in a scroll casing. Custom Model VA offers the energy efficiency of airfoil blades suited for supply and exhaust air and industrial applications. With several rotor designs, custom sizing and duty matching blades, Model VA is the fan that meets exact system performance specifications.

- Fan sizes 500 to 2700
- Volumes to 670 000 m³/h
- Pressures to 15 000 Pa
- Power to 1500 kW
- Maximum Temperature 550 °C



Model VD (Design 19, DW)

Model VD is a double width version of the Model VA. The Double-Width configuration carries an enviable reputation for fan performance and reliability. Model VD is the fan that meets exact system performance specifications.

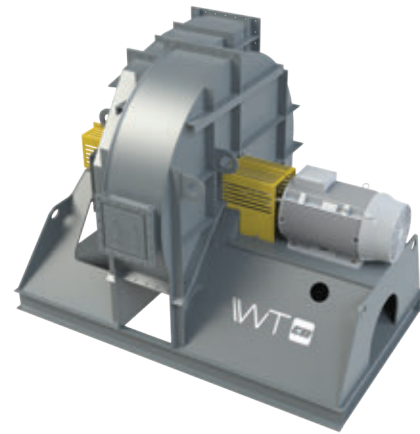
- Fan sizes 500 to 2700
- Volumes to 15 000 m³/h
- Pressures to 15 000 Pa
- Power to 4000 kW
- Maximum Temperature 550 °C



Model VS (Design 61)

Model VS is a centrifugal fan with ten backward curved blades in a scroll housing. The wheel uses heavy backward curved blades designed to handle dusty and harsh environments. With several rotor designs, custom sizing and duty matching blades, Model VS is the fan that meets exact system performance specifications.

- Fan sizes 600 to 2600
- Volumes to 610 000 m³/h
- Pressures to 15 000 Pa
- Power to 1500 kW
- Maximum Temperature 550 °C



Model VC (Design 55)

Model VC is a custom centrifugal fan with a thin wheel and sixteen backward curved blades in a scroll housing. Backward curved blades are for dusty, dirty applications. Engineers and users enthusiastically specify the VC for many high pressure applications as a forced-draught fan or induced-draught fan.

- Fan sizes 800 to 2200
- Volumes to 200 000 m³/h
- Pressures to 18 000 Pa
- Power to 1000 kW
- Maximum Temperature 550 °C



Model VM (Design 48, SW)

Model VM is a centrifugal radial tipped fan in a scroll housing. Radial tip wheels are designed for handling dusty, dirty airstreams while providing excellent operating efficiencies. The fan wheel is designed specifically for use in harsh environments, including systems with hot vapors and gases, exhaust gases and a light concentration of solids in the moving medium.

- Fan sizes 750 to 2700
- Volumes to 850 000 m³/h
- Pressures to 17 000 Pa
- Power to 950 kW
- Maximum Temperature 550 °C



Model VN (Design 48, DW)

Model VN is a double width version of the Model VM. The VN is made for work in special conditions of industrial production. Fans of this series are used in boiler units and cement kilns. Production according to individual requirements of the customer is possible.

- Fan sizes 750 to 2700
- Volumes to 1 350 000 m³/h
- Pressures to 17 000 Pa
- Power to 4000 kW
- Maximum Temperature 550 °C



Model VG (Design 48, turbine, SW)

Model VG is a centrifugal radial tipped fan in a scroll housing. The Model VG fan series is designed specifically for two drives, including a steam turbine. Fans of this series are used in enterprises where process steam allows reducing the cost of operating technological ventilation. Production according to the individual requirements of the customer is possible.

- Fan sizes 750 to 2700
- Volumes to 450 000 m³/h
- Pressures to 17 000 Pa
- Power to be specified
- Maximum Temperature 550 °C



Model VR (Design 48, turbine, DW)

Model VR is a double wheel version of the Model VG. The Model VR fan series is designed specifically for two drives, including a steam turbine. Fans of this series are used in enterprises where process steam allows reducing the cost of operating technological ventilation. Production according to the individual requirements of the customer is possible.

- Fan sizes 750 to 2700
- Volumes to 450 000 m³/h
- Pressures to 17 000 Pa
- Power to be specified
- Maximum Temperature 550 °C



Model VH (Design 58)

Model VH is a centrifugal fan with ten backward curved blades in a scroll housing. Model VH has a thin impeller with a large effective diameter. The VH can be part of the installations of boiler units, thermal electric and electric blower stations. Production according to individual requirements of the customer is possible.

- Fan sizes 800 to 2200
- Volumes to 135 000 m³/h
- Pressures to 20 000 Pa
- Power to 900 kW
- Maximum Temperature 550 °C



Model BC (Design 49)

Model BC is a centrifugal high pressure fan with a radial wheel in a scroll casing. The fan is suitable for operation in combustion chambers, in drying and cooling systems, and in petrochemical plants. Production according to individual requirements of the customer is possible.

- Fan sizes 800 to 2500
- Volumes to 76 000 m³/h
- Pressures to 20 000 Pa
- Power to 600 kW
- Maximum Temperature 550 °C



Model BR (Design 23, SW)

Model BR is a centrifugal pressure air fan with radial blades in a scroll housing. Pressure air fan is ideal for corrosive exhaust, air pollution systems and chemical processing. The Model BR wheel is available in different diameters and width. By varying the width and diameter optimum efficiencies are realized. Production according to individual requirements of the customer is possible.

- Fan sizes 500 to 2500
- Volumes to 370 000 m³/h
- Pressures to 27 000 Pa
- Power to 2000 kW
- Maximum Temperature 550 °C



Model BN (Design 23, DW)

Model BN is a double wheel version of the Model BR. The fan is designed to move dusty air with solid particles, it is also suitable for pneumatic conveying systems. It is possible to use wear-resistant surfacing on trays and fan housing for working with abrasive materials. Production according to individual requirements of the customer is possible.

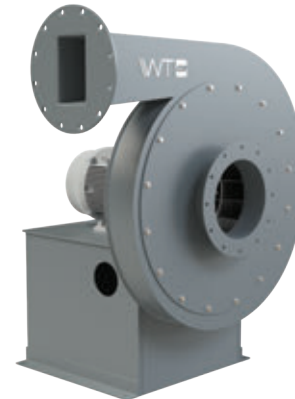
- Fan sizes 500 to 2500
- Volumes to 740 000 m³/h
- Pressures to 27 000 Pa
- Power to 5000 kW
- Maximum Temperature 550 °C



Model ZR (Design 38)

Model ZR is a centrifugal radial bladed pressure blower. The fan casing and impeller are cast from high-strength aluminum alloy, which makes it corrosion resistant. Aluminum also stands up to sub-zero ambients without material deterioration. Since aluminum is non-magnetic and non-toxic, Model ZR are recommended for both electronic and food related applications. Model ZR fills the diverse needs of high pressure applications from combustion air to fume and dust control.

- Fan sizes 200 to 500
- Volumes to 8500 m³/h
- Pressures to 6000 Pa
- Power to 15 kW
- Maximum Temperature 80 °C



Model ZF (Design 53)

Model ZF is a centrifugal radial bladed pressure blower. The ZF is designed for combustion air, fluid bed aeration, cooling, drying and many process system applications. It is also commonly used in pneumatic conveying systems.

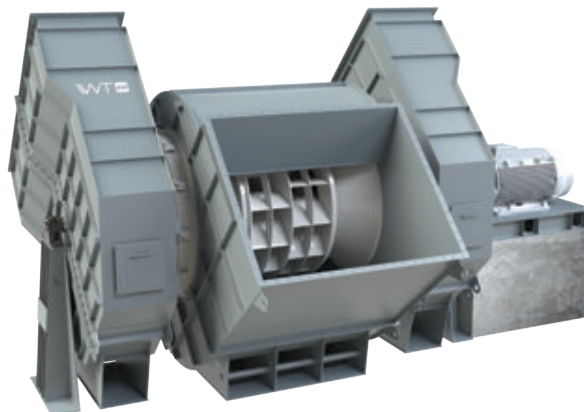
- Fan sizes 500 to 900
- Volumes to 30 500 m³/h
- Pressures to 22 900 Pa
- Power to 200 kW
- Maximum Temperature 350 °C



Model FR (Custom Well Technology)

Model FR is a series of centrifugal fans in a scroll casing, designed to meet the specific requirements of industry applications. Fans of this series are used in nuclear power generation industry, on ships and in the oil and gas industry in accordance with the technical specifications of the customer.

- Fan sizes 280 to 1800
- Volumes to 150 000 m³/h
- Pressures to 7500 Pa
- Power to 450 kW
- Maximum Temperature 200 °C



FF (Custom Well Technology)

Model FF is a series of centrifugal double width fans in a scroll casing, designed according to the specific requirements of industry applications, including main ventilation units.

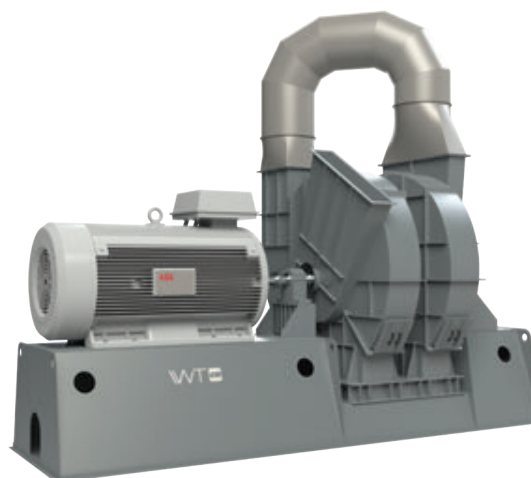
- Fan sizes 500 to 5500
- Volumes to 2 800 000 m³/h
- Pressures to 29 000 Pa
- Power to 15 000 kW
- Maximum Temperature 450 °C



Model MR (Custom Well Technology)

Model MR is a high-pressure centrifugal Turbo Fan for mechanical vapor recompression. Mechanical recompression of steam is one of the most effective ways to use steam, which helps to significantly reduce costs. Model MR is suitable for various fields and applications, including the production of sugar, dairy products, etc.

- Fan sizes 1000 to 2500
- Volumes to 250 000 m³/h
- Pressures to 50 000 Pa
- Power to 2500 kW
- Maximum Temperature 550 °C











Model MB (Custom Well Technology)

Model MB is a centrifugal double stage high pressure fan. Model MB fans are manufactured according to the specific requirements of the petrochemical industry. In addition, fans of this series can be used for the production of fertilizers.

- Fan sizes 1500 to 3500
- Volumes to 500 000 m³/h
- Pressures to 50 000 Pa
- Power to 9000 kW
- Maximum Temperature 550 °C

AXIAL FANS

Wheel Type	Max pressure, (Pa)	Max temperature, (°C)	Aspect
Steel axial wheel with a fixed blade pitch. Wheels are furnished of welded steel construction with spun steel hub and die formed airfoil blades. Handling of Acid Fumes and Explosive Vapors.	1250	250	
Aluminum axial wheel with twelve airfoil blades with adjustable pitch. Blade pitch is adjusted externally at the hub to increase or decrease volume and pressure. Supply and exhaust ventilation systems.	3750	80	
Aluminum axial wheel with five airfoil blades with adjustable pitch. Blade pitch is adjusted externally at the hub to increase or decrease volume and pressure. Supply and exhaust ventilation systems.	2500	80	
Aluminum axial wheel with adjustable blade pitch. Handling of air flows and gases in the general ventilation and smoke exhaust systems.	1200	80	
Steel axial impeller. Air injection into the combustion chambers of steam boilers, power plants, thermal power plants. Flue gas removal in other industries (cement plants, mines, etc.). Production according to individual requirements of the customer is possible.	15 000	250	
Axial wheel with a controllable blade pitch. Designed for installation in main ventilation systems where high performance and high pressure are required. The wheel is fully custom made.	15 000	200	
Axial aluminum wheel with airfoil rotative blades. The wheel is intended for use in ventilation systems for mines and tunnels. The wheel is fully custom made.	15 000	60	
Axial impeller with variable pitch blades. The wheel is used in air injection systems through ducts in the mining industry. The wheel is fully custom made.	4200	80	

Axial fans



Model AB (Design 34)

Model AB is an axial fan with airfoil blades. Model AB is a belt driven fan that provides the convenience and flexibility of a full range of speeds from externally mounted motors. The motor, drives and bearings are protected from air stream and will permit the handling of lightly contaminated air at high temperatures with a steel wheel. The AB Fixed Pitch Vane Axial fans are commonly used in the following applications: paint booths, fume exhaust, lint collection, dust collecting.

- Fan sizes 400 to 1400
- Volumes to 130 000 m³/h
- Pressures to 1250 Pa
- Power to 450 kW
- Maximum Temperature 250 °C



Model AM (Design 37, tube axial)

Model AM is a direct drive tube axial fan with airfoil blades. Because of the adjustable pitch blades Model AM is capable of more air delivery for the same horsepower. The AM is an effective solution to various applications form continuous inline exhausting to process equipment to heat transfer.

- Fan sizes 350 to 1200
- Volumes to 110 000 m³/h
- Pressures to 750 Pa
- Power to 55 kW
- Maximum Temperature 80 °C



Model AN (Design 37, panel)

Model AN is a direct drive panel axial fan with aluminum airfoil blades. The AN is an effective solution to wall, roof or general ventilation and exhaust applications.

- Fan sizes 350 to 1200
- Volumes to 110 000 m³/h
- Pressures to 500 Pa
- Power to 55 kW
- Maximum Temperature 80 °C



Model AV (Design 47)

Model AV is a direct drive vane axial controllable pitch fan with airfoil blades. Model AV is the best choice for variable air volume systems, they are also used in industrial applications to maintain constant environmental conditions regardless of air demand.

- Fan sizes 400 to 2000
- Volumes to 260 000 m³/h
- Pressures to 3750 Pa
- Power to 250 kW
- Maximum Temperature 80 °C



Model SE (Custom Well Technology)

Model SE is an axial custom industrial fan. Model SE is used to create normal atmospheric conditions. Fans of this series are installed in the subways and tunnels for local ventilation.

- Fan sizes 500 to 2800
- Volumes to 900 000 m³/h
- Pressures to 5500 Pa
- Power to 500 kW
- Maximum Temperature 250 °C



Model SW (Custom Well Technology)

Model SW is a custom double stage axial fan with airfoil blades. Main ventilation fan is used to create normal atmospheric conditions. Fans of this series are installed in ventilation systems of mines.

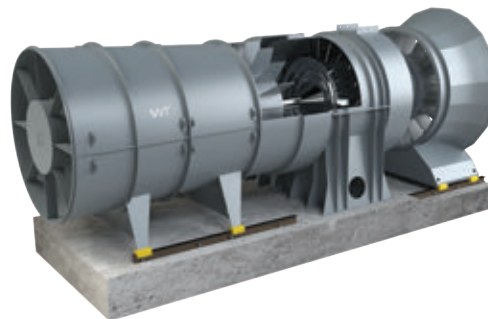
- Fan sizes 500 to 2800
- Volumes to 900 000 m³/h
- Pressures to 11 000 Pa
- Power to 1500 kW
- Maximum Temperature 250 °C



Model SA (Custom Well Technology)

Model SA is a custom axial industrial belt-driven fan, manufactured according to special technical requirements. Fans of this series are used to move aggressive media in industrial plants.

- Fan sizes 1400 to 5500
- Volumes to 900 000 m³/h
- Pressures to 2000 Pa
- Power to 500 kW
- Maximum Temperature 80 °C



Model SR (Custom Well Technology)

Model SR is an axial industrial fan with airfoil blades. It is possible to change the angle of the installation blades hydraulically in the operating mode. Fans of this series are installed as part of the main ventilation units.

- Fan sizes 1 400 to 4500
- Volumes to 2 600 000 m³/h
- Pressures to 9000 Pa
- Power to 15 000 kW
- Maximum Temperature 250 °C

Fan selection

Well Technology is ready to offer the development of non-standard fans with a variety of options. With the help of licensed software our experienced engineers will help you to choose equipment according to specified non-standard parameters.



An ISO 9001 Company

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<http://www.chicagoblower.com>
fans@chicagoblower.com

Description

February 18, 2020

Job Description: **Job A**
Reference: **Selection A**
Fan Type: **Airfoil Custom Engineered Fans**
Fan Model: **Design 1902 SW**
Fan Size: **8034**
Fan Width: **79.9%**

Well Technology
Maksim
Phone: +372 55 529 492
Email: maksim.alenin@welltechnology.eu

Performance

Values are in accordance with AMCA Standard 210

	Flow (M ³ /HR)	SP (KPA)	TP (KPA)	Density (KG/M ³)	Temp. (° C)	Elev. (M)	Speed (RPM)	Power (KW)	Power @ 0° C (KW)	Static Eff. (%)	Total Eff. (%)	OV (M/S)	Damper Opening (%)
Design	170000	5.5	5.65	1.21	20	0	985	306.86	329.27	82.9	86.92	15.69	0
Net 1 [RPM Change]	150000	3.5	3.62	1.21	20	0	821	177.03	189.96	81.2	85.09	13.85	0

Fan Discharge Area (M ²)	3.01
Max Airstream Temperature (° C)	80

Sound

Values are in accordance with AMCA Standard 300

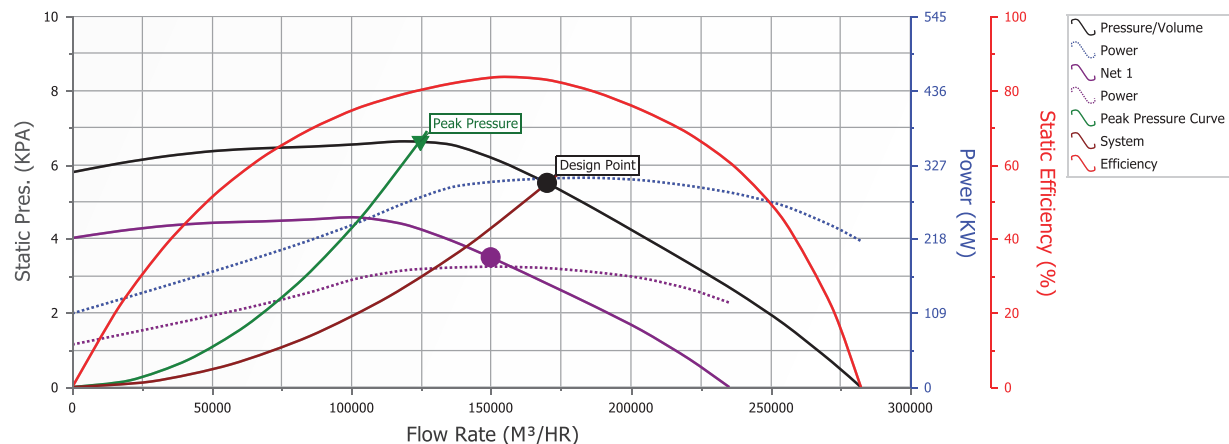
External Sound Power Levels (dB)

Center Hz	63	125	250	500	1000	2000	4000	8000
L _{wi}	125	123	113	109	106	99	94	87
ERC	2	1						

Sound Pressure 1 M from Fan (dBA): 105

L_{wi} (L_{w0}) is sound power at the fan inlet (outlet)/airstream, less ERC.

Sound Pressure, Radiated, 1 M from 1/2 IN. housing 82 dBA.





		Edit 1	Date: 01.01.2020
Fan	Model VA-310-2050-T080-AC-035500-06-5-08B-RD045-2-00	DS №	AT20250000A001
Ex-order number	- / - motor / general order number		
Specification	-		
Facility			
Unit			
Customer			
Contact person		Tel.	
E-mail			
Branch	Well Technology Group		
Project Manager		Tel.	+372 55 529 492
E-mail	sales@welltechnology.eu		

Inputs	A1	A2		
Q, m ³ /h	170 000	150 000	altitude, m/ atmp. pressure	0 / 101 325
Pv, Pa	5 500	3 500	T ambient air, °C	min +5 max +25
T inlet, °C	20	20	T transported media, °C	min 0 max +30
ρ inlet, kg/m ³	1,210	1,210	dust load, g/m ³	0,1
at P rel. inlet, Pa	0	0		

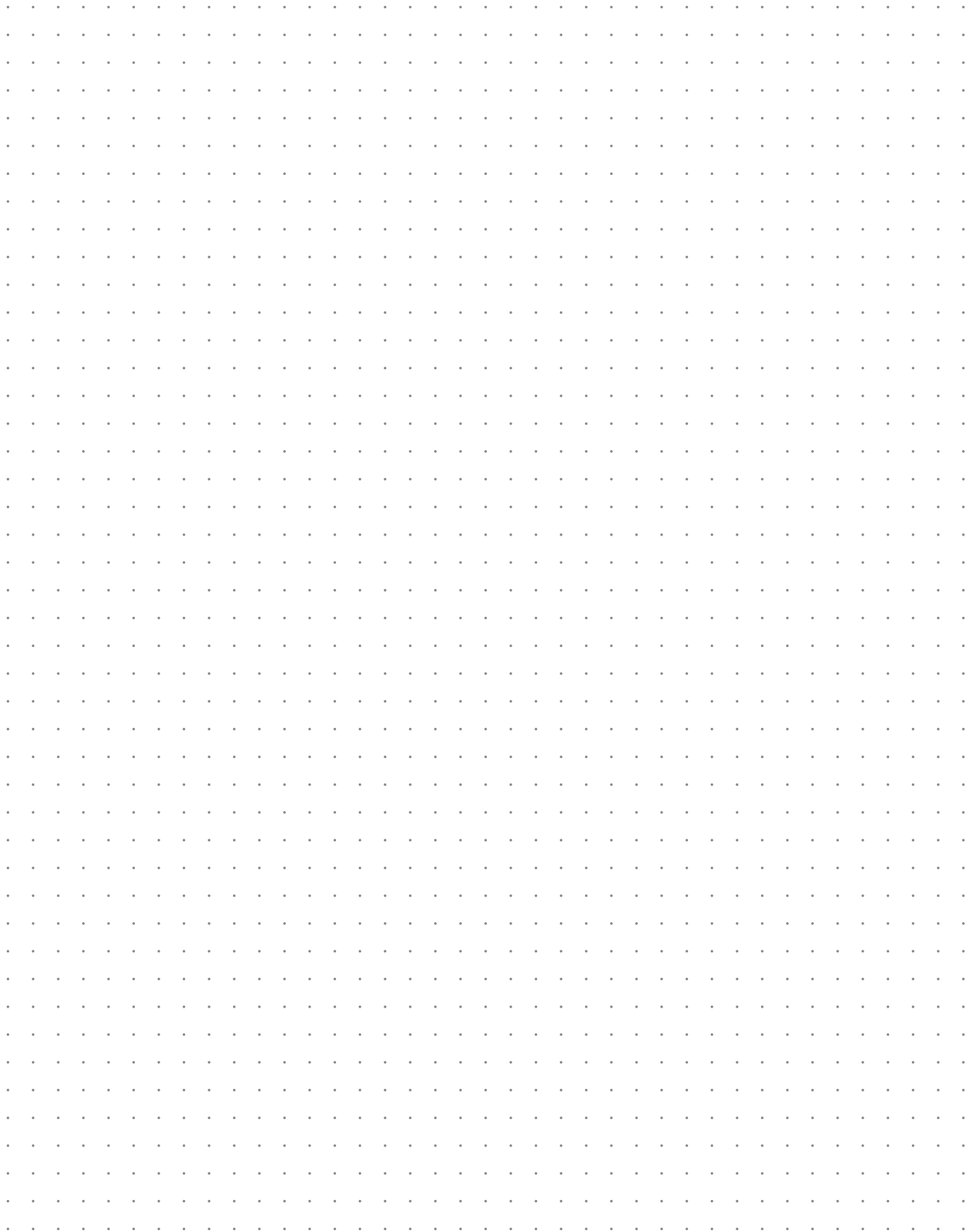
Fan			
RPM	985	821	Impeller
Q, m ³ /h	170 000	150 000	Casing
Q, st.m ³ /h	171 417	151 250	Pedestal
Operating point			Inlet flange
Pv, Pa	5 650	3 618	Outlet flange
Psv, Pa	5 504	3 504	m, kg (without motor)
Pdv, Pa	146	114	construct. T transpot. media, °C
N, kW	306,86	177,03	structural pressure, Pa
η, %	86,9	85,1	n max structural min ⁻¹
ηs, %	82,9	81,2	J rotor (PD ³), kg·m ²
v inlet / outlet, m/s	16 / 16	14 / 14	m rotor, kg
T outlet °C	25	24	balancing class
At T inlet = 0°C (ρ = 1.293 kg/m³)			vibration category
Pv, Pa	6 038	3 866	energy efficiency indicator
N, kW	327,91	189,17	ISO 12759

Electric motor	IE2 355kW 6P 355M/L 3Ph 380/660V 50Hz IC411	
n nom., min ⁻¹	990	Link power with installation dimensions according to IEC 60072-1. Energy efficiency class IE2. - Winding thermal protection - RTD's PT100 2 Leads - 1/phase; - Bearing thermal protection - RTD's PT100 2 Leads - 1/bearing; - Space Heater; - Grease nipple system; - Insulated bearing housing at NDE endshield; - Shaft grounding brush.
P nom., kW	355	
I nom., A	714 / 411	
U nom., B	380	
U winding., B	380/660 Δ/Y	
f nominal, Hz	50,0	
load in the o.p., %*	86	
τ, s	N/A	
J (PD ³) rotor, kg·m ²	N/A	
mounting	IMB3 (IM1001)	
Degree of casing protection	IP55	
junction boxes	IP55	
cooling mehtod	IC411	
m, kg	2200	

Well Technology OU reserves the right to change the brand of the electric motor while maintaining technically significant parameters, as well as make changes to the design and technical documentation of fans that do not impair their consumer properties.

Customer _____

Data Sheet AT20250000A001 17000m3h_5500Pa_



rev. 2020-02



Well Technology

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